

What Did the Firefly Say As the Sun Set?

Write an algebraic expression for the phrase. Cross out the number-letter pair above each correct answer. For each number-letter pair that you DON'T cross out, write the letter in the matching numbered box at the bottom of the page.



1. Let n represent an unknown number.

- a. eight more than the number
- b. three times the number
- c. the product of the number and eight
- d. three less than the number
- e. three decreased by the number

5•B	2•O	14•D	1•R	15•V	8•S	11•W
$8n$	$8 - n$	$8 + n$	$3 - n$	$3n$	$n - 3$	$n + 3$

2. Let k represent an unknown number.

- a. the sum of the number and two
- b. the quotient of the number and nine
- c. twice the number
- d. the difference of nine and the number
- e. nine less than the number

15•N	8•C	5•T	1•K	6•Y	14•O	10•A
$9 - k$	$k + 2$	$9k$	$2k$	$k - 9$	$k - 2$	$k \frac{9}{9}$

3. Let x represent an unknown number.

- a. 4 times the sum of 7 and the number
- b. 4 times 7 plus the number
- c. 7 less than the product of 4 and the number
- d. 7 times the quantity 4 more than the number
- e. 4 times the quantity 7 less than the number

15•W	1•M	6•R	8•G	10•E	13•D	9•H
$7x + 4$	$4(x - 7)$	$4(7) + x$	$7(x - 4)$	$7(4 + x)$	$4(7 + x)$	$4x - 7$

4. Let u represent an unknown number.

- a. two-fifths of the number
- b. five more than twice the number
- c. five times the sum of the number and two
- d. one-fifth of the sum of the number and two
- e. half of the quantity five less than the number

10•A	13•R	9•E	1•G	6•O	3•B	12•H
$5(u + 2)$	$2 \frac{u}{5}$	$\frac{u - 5}{2}$	$5u - 2$	$\frac{u - 2}{5}$	$5 + 2u$	$\frac{u + 2}{5}$

5. Let a represent Atom's age now.

- a. Atom's age in three years
- b. Atom's age four years ago
- c. four times Atom's age three years ago
- d. three times Atom's age in four years
- e. three years more than four times Atom's age

9•R	3•N	10•O	4•S	7•A	13•N	11•V
$4(a - 3)$	$a + 3$	$3(a - 4)$	$3(a + 4)$	$a - 4$	$4 - 3a$	$3 + 4a$

6. Let w represent the width of a rectangle. The length is 8 cm more than the width.

- a. 5 times the width
- b. the length
- c. 5 times the length
- d. 8 cm more than the product of 5 and the width
- e. one-eighth of the sum of 5 cm and the width



7•O	4•S	9•L	3•R	2•E	9•N	3•T
$w + 8$	$5 + \frac{w}{8}$	$8(w - 5)$	$5(w + 8)$	$5w$	$8 + 5w$	$\frac{w - 8}{5}$

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
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